DIME Dynamic Documentation

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wbg.png

i2i DIME
TRANSFORM DEVELOPMENT

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- LaTeX allows us to create a document once and every time a do-file is run, the tables are automatically updated in our LaTeX document.
- This saves us a lot of time in the long run even though the learning curve for LaTeX is a bit complicated compared to MS Word.

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- Generates Table of Contents, list of Figures, list of tables automatically.
- Open source and standard across any version/editor of LaTeX, ShareLaTeX, etc. (not the same with Word i.e. formatting gets messed up between different version of Word).

And....

- Documents can have comments as well. So you can write notes to yourself, future ideas which only you can read!

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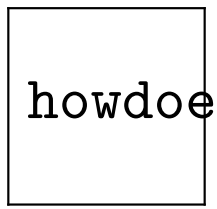
- Very flexible as every setting can be defined by the user.
- Saves a lot of time in formatting.

How does TeX work ?



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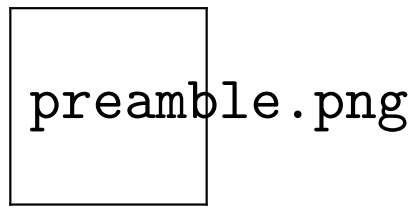
- Template 1 shows how to import tables.
- Template 2 shows how to import figures.
- Template 3 displays some more advanced options and features of LaTeX.

Preamble



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- `\usepackage{package_name}`
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- `\title{document_title}`
  The document title is defined in the preamble and later printed, as well as *authors* and *date*

Headers

maketitle	Print the document's title, authors and date in the first page.
tableofcontents	Prints a summary with all the sections and subsections.
newpage	Insert a page break.
listoffigures	Prints a list of all the figures in the document.
listoftables	Prints a list of all the tables in the document.
Comments	Adding "%" before text comments it out.

Creating Sections

Writing in your document

Importing images to your document

- Each figure starts with `\begin{figure}` and `\end{figure}`
- **[H]** prints the figure as close as possible from where it appears in the text
- `\centering` centers the figure (oh, really?)
- `\includgraphics` is what actually imports your image:
  - `[width=\textwidth]` adjusts the size of the figure to the page. Alternatively, `[width=0.x\textwidth]` makes it smaller.
  - The path to your figure must begin from the same folder where your .tex file is!
- `\caption{Name of your figure}`
- `\label{fig:my_label}` allows you to cross-reference the figure on the text by typing `\ref{fig:my_label}`

Importing tables into the document

- Each tables starts with `\begin{table}` and ends with `\end{table}`
- `\begin{adjustbox}{max width = \textwidth}` adjusts the size of the table to the page. Alternatively, `{max width = 0.x\textwidth}` makes it smaller.
- `\input` is what actually imports you table
  - The path to your figure must begin from the same folder where your .tex file is!
- You can also use `\caption` and `\label` here. Typing `\caption{}` will print Table #, with no title.
- If `\caption` comes before the table itself, the title is above it. If it comes after, the title is printed below the table.

Fragmented documents

- The tables we export from Stata are actually fragmented documents
- These are TeX files with no `\begin{document}` or `\end{document}`, so they will not compile on their own
- We could simply copy and paste this document into our main LaTeX file, but then they would not be automatically updated

If you want to learn more

https://en.wikibooks.org/wiki/LaTeX